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(54) Title: **AMPLIFIED CANCER TARGET GENES USEFUL IN DIAGNOSIS AND THERAPEUTIC SCREENING**

(57) Abstract: A gene useful as a prognostic indicator of survival of patients afflicted with cancers such as breast cancer is described. Also disclosed are methods for screening potential therapeutic agents, such as antitumor agents, based on their modulation of the expression of a TRIP13 gene, or splice variants thereof, along with methods for diagnosing cancerous, or potentially cancerous, conditions as a result of the expression, or patterns of expression, of such genes, including changes in copy number. Also disclosed are methods for detecting or determining functionally related genes, where disruption of TRIP13 may affect such related-gene expression, as well as methods for treating cancer based on targeting expression products of such genes and determining genes involved in the cancerous process. Methods for identifying, detecting and following patients and others having high levels of amplification/expression of the gene before treatment where differences after treatment serve as markers for indication of success of treatment or for identifying individuals who would benefit from such treatment using this gene marker as a diagnostic and/or prognostic and/or pharmacodynamic or surrogate marker are described.

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